

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 31] नई दिल्ली, शनिवार, अगस्त 1, 1992 (श्रावण 10, 1914)  
No. 31] NEW DELHI, SATURDAY, AUGUST 1, 1992 (SRAVANA 10, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 1st August 1992

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todl Estates, III Floor,  
Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

पेटेंट कार्यालय

एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 1 अगस्त 1992

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में उसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोल के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेट,  
तीसरा तल, लोवर परोल (पश्चिम),  
पम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं मध्य शासित क्षेत्र गोआ, दमन तथा  
दिव एवं जावरा और नागर हवेली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं मध्य शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,  
61, बालाजाह रोड,  
मद्रास-600002 ।

अन्ध्र प्रदेश, कर्नाटक, कर्ण, तमिलनाडु राज्य  
क्षेत्र एवं मध्य शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप  
मिस्मिन् तथा अभिनविधि द्वीप ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)  
निजाम पैलेस, द्वितीय बहुस्तरीय कार्यालय,  
भवन, 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे-  
क्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शुल्क :—शुल्कों की उदायगी या तो नकद की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनावेश अथवा  
चाक आदेश या जहां उपर्युक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रण को भुगतान योग्य बैंक ड्राफ्ट  
अथवा बैंक द्वारा की जा सकती है ।

## CORRIGENDUM

In the Gazette of India, Part III, Sec. 2, dated the 23rd April 1988 :

(a) In page 322, Col. 1 delete Application for the Patent No. 733/Mas/84 filed on 25th just below the invention “A Device ..... therein” and read the Applicant as N. T. Bhardwaj, 44(28) Cutchery Road Mylapore, Madras-600004 TAMILNADU, INDIA, INDIAN NATIONAL in the same place for application for Patent No. 733/Mas/84 filed on 25th September, 1984.

(b) In page 326, Col.-2 for application for Patent No. 168/Del/85 filed on 27th February, 1985 read its accepted No. as 162300 which has not been printed.

In the Gazette of India Part III, Sec. 2 dated 11th June, 1988.

(1) In page 530, Col. 2 for Application for Patent No. 1596/Cal/83 filed on December 28, 1983 read its accepted No. as 162582

In the Gazette of India, Part III, Sec. 2 dated the 18th June 1988 :

(a) In page 551, Col.-2 for application for patent No. 783/Mas/85 (162609) read the applicant as RICHTER GEDEON VEGYESZETI GYAR RT instead of RICHTER GEDCON VEGYESZETI IYAR RT.

In the Gazette of India Part III, Sec. 2, dated the 2nd July, 1988 :

In page 601, Col-1 read the following just below 5th line accepted No. 162/22 (550/Mas/84)

Applicant : Energy Conversion Devices, Inc., of 1675 West Maple Road, Troy, MI 48081, U.S.A., A Delaware Corporation.

In the Gazette of India, Part III, Section-2, (a) dated 15-2-1992, in respect of Application No. 275/Bom/1988 (170131) on page No. 182 read “Patent Office Madras Branch” as “Patent Office Bombay Branch”.

(d) dated 29-2-92, in respect of application No. 10/BOM/1990 (170241) on page No. 241 read the Title as “A dish washing machine”

(e) dated 29-2-93 in respect of application No. 109/BOM/90 (170241) in col. 1 on page No. 243 delete the 4th line i.e. “Applicants HINDUSTAN LEVER LTD. HINDUSTAN”.

## GOVERNMENT OF INDIA

## THE PATENT OFFICE

Calcutta, the 1st August 1992

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20.

The dates shown in the crescent brackets are the dates  
claimed under section 135, of the Patents Act, 1970.

The 18th June 1992.

431/Cal/92 : Keystone International Holdings Corp.,  
Recirculation Valve.

432/Cal/92 : Hoechst Aktiengesellschaft. Electrolysis apparatus.

433/Cal/92 : E.I. Du Pont De Nemours and Company. Ballistic Composite.

434/Cal/92 : E.I. Du Pont De Nemours and Company. p-Aramid Ballistic Yarn and Structure.

435/Cal/92 : United Catalysts Inc. Process for Preparation of low temperature shift catalysts. [Divided out of No. 249/Cal/89, antedated to April 03rd, 1989.]

436/Cal/92 : Chien-Hua Taso. A Tubular Container and packages for the same.

The 22nd June 1992.

437/Cal/92 : Metallgesellschaft Aktiengesellschaft. Process of preparing sulfate-containing basic solutions of polyaluminumchloride.

438/Cal/92 : Prolux Maschinenbau GmbH. Multiple-Folded single tube glass vessels and apparatus and process for the manufacture thereof.

439/Cal/92 : Prolux Maschinenbau GmbH. Process and apparatus for the coating the inside of meander-shaped single tube glass vessels with a suspension.

440/Cal/92 : Degussa Aktiengesellschaft. Reductive amination of an amino acid or of an amino acid derivative with an Keto acid or an Keto acid derivative.

441/Cal/92 : Merck Patent Gesellschaft mit beschränkter Haftung. Surface-modified plate-like pigments.

442/Cal/92 : Brett Products Inc. Wire wound Core.

443/Cal/92 : Stork Brabant B. V. A. Dutch Company. Rotary Screen Printing Machine.

23rd June 1992

444/Cal/92 : Nufarm Technology Pty. Ltd. Composition for Administration of Bioactive Agents.

445/Cal/92 : ABB Henschel Waggon Union GmbH. Bogie for high-speed rail vehicles.

Applications for patents filed at the Patent Office Branch, Municipal Market Building, IIIrd Floor, Karol Bagh, New Delhi-110005.

6th April 1992

301/Del/92 : Barreme Pty. Ltd., "A valve assembly". (Convention date 10th April, 1991) (Australia).

302/Del/92 : H-C Industries, Inc., "Tamper indicating plastic closure".

303/Del/92 : SKW Metals UK Ltd., "Coated molybdenum parts and process for their production". (Convention date 8th April, 1991) (U.K.).

7th April 1992

304/Del/92 : Ingersoll-Rand Co., "Wrap spring clutch for percussive apparatus".

305/Del/92 : Electric Power Research Institute, Inc. "Generating electric power from solar radiation".

306/Del/92 : Manoir Industries, "Improvements in a relating to method of connecting a manganese steel part to another carbon steel part and assembly thus obtained".

307/Del/92 : Rohm & Hass Co., "Low molecular weight-monoalkyl phosphinate and phosphonate copolymers".

8th April 1992

308/Del/92 : Council of Scientific & Industrial Research, "A device useful for the measurement of roughness of roads".

309/Del/92 : Council of Scientific & Industrial Research, "A process for the preparation of a colour detection test strip useful for the detection of butter yellow, a toxic adulterant, in edible oils".

310/Del/92 : Council of Scientific & Industrial Research, "A composition for preparing heat and ultraviolet light sensitive paper, a process for the preparation of thermal recording paper and a thermal recording paper prepared thereby".

311/Del/92 : Council of Scientific & Industrial Research, "An improved formulation for increasing the corrosion resistance of cement grout".

312/Del/92 : The Procter & Gamble Co., "Agglomeration of high active pastes to form surfactant granules useful in detergent compositions". (Convention date 12th April, 1991) (U.K.).

313/Del/92 : The Procter & Gamble Co., "Chemical structuring of surfactant pastes to form high active surfactant granules". (Convention date 12th April, 91) (U.K.).

314/Del/92 : The Procter & Gamble Co. "Laundry detergent compositions (Convention date 12th April, 1991) (U.K.).

315/Del/92 : The Procter & Gamble Co., "Compact detergent composition containing polyvinyl-pyrrolidone". (Convention date 12th April 1991 (U.K.).

316/Del/92 : UOP, "FCC Process and apparatus having a low volume dilute phase disengagement zone in the reaction vessel".

317/Del/92 : Colgate-Palmolive Co., "Light duty liquid detergent compositions".

318/Del/92 : Wilkinson Sword Gesellschaft Mit Beschränkter Haftung, "Razor head, in particular a razor blade Unit of a wet razor".

9th April 1992

319/Del/92 : The B.F. Goodrich Co., "A process for pelletizing (polyvinyl chloride) homopolymer, a predominantly aliphatic methyl styrene copolymer blended therewith, and glass fibres, to form a glass fibre reinforced blend". [Divisional date 23rd September, 1988].

10th April 1992

320/Del/92 : GEC Alsthom S.A., "An impulse turbine with a drum rotor and improvements to such turbines".

13th April 1992

321/Del/92 : Shin Kwang Enterprise Co. Ltd., "Process for a fluorescent tube coiling apparatus".

322/Del/92 : Daniel Machoud. "Babies diapers".

323/Del/92 : Amoco Corporation, "Improved process for recovery of purified terephthalic acid".

324/Del/92 : Amoco Corporation, "Process for the preparation of crude terephthalic acid suitable for reduction to prepare purified terephthalic acid".

325/Del/92 : GEC Alsthom S. a., "Device for signalling the position of a mobile member".

326/Del/92 : Ingersoll-Rand Co., "Anti deformation casing for a rolling piston compressor".

327/Del/92 : Knorr Brake Holding Corporation, "A brake pipe pressure modulation valve device for facilitating propagation of brake application and release fluid pressure signals through a brake pipe." [Divisional date 7th April, 89].

16th April 1992

328/Del/92 : Murao and Co. Ltd., "Clearer for draft rollers".

329/Del/92 : Murao and Co. Ltd., "Clearer for draft rollers".

330/Del/92 : Council of Scientific & Industrial Research, "A lithium-manganese dioxide non-aqueous coin cell".

331/Del/92 : Council of Scientific & Industrial Research, "An improved process for the manufacture of o,o-diethyl-o-3, 5, 6-trichloro-2-pyridyl phosphorothioate (chlorpyrifos)".

332/Del/92. Council of Scientific & Industrial Research, "An improved formulation useful for the protection of prestressing steel during storage of while lying in cable duct".

333/Del/92. Rohm & Haas Co., "Heat-resistant nonwoven fabrics".

334/Del/92. The Lubrizol Corporation, "thermally stable compositions and lubricants and functional fluids containing the same".

The 20th April 1992

335/Del/92. The Procter & Gamble Co., "Cellulase granulates for use in a particulate detergent composition for cleaning and softening fabrics". [Divisional date 17th November, 1988] & (Convention date 19th November, 1987) (U.K.).

336/Del/92. Johnson Mathey Public Ltd. Co., "Improved catalyst material". (Convention date 4th May 91) (U.K.).

337/Del/92. Fu Tai Umbrella Works, Ltd., "Automatically closing umbrella".

338/Del/92. Rohm & Haas Co., "Phosphosulfonate herbicides".

The 21st April 1992

339/Del/92. Union Carbide Industrial Gases Technology Corporation, "Reactive treatment of composite gas separation membranes".

340/Del/92. Paul Wurth S.A., "Installation for charging a shaft furnace".

341/Del/92. Aerospatiale Societe Nationale Industrielle & Other, "Method for mechanical joining a tube of composite material and a metallic fitting and structure thus obtained".

342/Del/92. Imperial Chemical Industries PLC., "Trans-hydrogenation". (Convention date 3rd May 91) (U.K.) & 14th October 91 (UK).

343/Del/92. Courtaulds PLC, "Dyeing". (Convention date 25th April 1991) (U.K.).

The 22nd April 1992

344/Del/92. The Procter & Gamble Co., "Particulate detergent compositions". (Convention date 23rd April 91) (U.K.).

345/Del/92. The Procter & Gamble Co., "Antibacterial mild liquid surfactant skin cleanser".

346/Del/92. The Procter & Gamble Co., "Absorbent structures containing specific particle size distributions of superabsorbent hydrogel-forming materials".

347/Del/92. The Procter & Gamble Co., "Process for improving oxidative stability of polyo fatty acid polyesters".

348/Del/92. The Lubrizol Corporation, "Liquid compositions containing complex carboxylic esters".

349/Del/92. Uniroyal Chemical Co., Inc., "Tire tread compositions".

350/Del/92. Rohm & Haas Co., "Ultrafiltration processes for the recovery of polymeric latices from white-water, and apparatus therefor".

351/Del/92. Rohm & Haas Co., "Epoxy molding composition for surface mount applications".

352/Del/92. European Atomic Energy Community (Euratom), "A method for the removal of hydrogen sulphide and/or carbon disulphide from waste gases".

The 23rd April 1992

353/Del/92. Council of Scientific & Industrial Research, "An instrument for the measurement of both oxygen and biological oxygen demand (Bod)".

354/Del/92. Morgan Construction Co., "Method and apparatus for continuously hot rolling of ferrous long products".

355/Del/92. The Gillette Co., "Improvements in or relating to razor blades".

356/Del/92. Simmons-Rand Co., "Battery changing system for electric battery-powered vehicles".

357/Del/92. Dresser Industries, Inc., "Fluid valve with actuation sensor".

358/Del/92. Atlas Powder Co., "An explosive composition". [Divisional date 18th November 1988].

The 24th April 1992

359/Del/92. PSI Telecommunications, Inc., "Terminal block".

360/Del/92. Rajesh Bhatnagar, "Manufacture of electrical tube fittings without choke & starter".

361/Del/92. Motorola Inc., "A method and apparatus for providing carrier frequency offset compensation in a TDMA communication system".

362/Del/92. Union Carbide Industrial Gases Technology Corporation, Improved heater arrangement for aluminum refining systems".

The 27th April 1992

363/Del/92. The Procter & Gamble Co., "Granular fabric softener compositions which form aqueous emulsion concentrates".

364/Del/92. ANI Corporation Ltd., "Improvements in rock bolting". (Convention date 26th April 91) (Australia).

365/Del/92. FU Tai Umbrella Works, Ltd., "Umbrella with smoothly automatically closing mechanism".

The 28th April 1992

366/Del/92. General Electric Co., "Direct processing of electroslag refined metal".

367/Del/92. General Electric Co., "Preheater for CVD diamond reactor".

368/Del/92. General Electric Co., "Method for producing articles by chemical vapor deposition and the articles produced therefrom".

369/Del/92. R.P. Raghava, "Anti-bacterial and flying insect repellent dhoop/stick".

370/Del/92. Gulam Dastagir Zahir Hussain, "An spanner for tightening or loosening studs".

371/Del/92. Advanced Technology Consortium, Inc. "Optical scanning/imaging system".

The 29th April 1992

372/Del/92. The Procter & Gamble Co., "Liquid detergents with an aryl boric acid for inhibition of proteolytic enzyme".

373/Del/92. The Procter & Gamble Co., "Built liquid detergents with boric-polyol complex to inhibit proteolytic enzyme".

374/Del/92. The Procter & Gamble Co., "Liquid detergents with aromatic borate ester to inhibit proteolytic enzyme". (Convention date 30th April 91) (U.K.).

375/Del/92. Ribaud Vertical Systems Co., "Track for a sliding door assembly". [Divisional date 25th October 1988].

376/Del/92. GEC Alsthom SA., "A method of manufacturing a thimble of contact fingers, and a thimble made by the method".

The 30th April 1992

377/Del/92. The Procter & Gamble Co., "Cosmetic compositions". (Convention date 4th May 91) (U.K.).

378/Del/92. The Procter & Gamble Co., "Cosmetic compositions". (Convention date 4th May 91) (U.K.).

379/Del/92. The Procter & Gamble Co., "Cosmetic compositions". (Convention date 4th May 91) (U.K.).

380/Del/92. The Procter & Gamble Co., "Cosmetic compositions". (Convention date 4th May 91) (U.K.).

381/Del/92. Imaje S.A., "Modular multijet deflection head and manufacturing method".

382/Del/92. ICI Canada, Inc., "Ammonium nitrate density modification". (Convention date 30th April 91 & 19th July 91) (U.K.).

The 4th May 1992

383/Del/92. Harmahendra Singh Bagga, "Shiva system".

384/Del/92. Pfizer Inc., "Quinuclidine derivatives".

385/Del/92. Motorola Inc., "A speech coder". [Divisional date 1st December 1988].

The 5th May 1992

386/Del/92. Mobil Solar Energy Corporation, "Method for forming solar cell contacts and interconnecting solar cells".

387/Del/92. The Procter & Gamble Co., "Granular laundry detergent compositions having improved solubility".

388/Del/92. Kraft General Foods, Inc., "Calcium citrate anticaking agent".

389/Del/92. Kraft General Foods, Inc., "Aqueous calcium citrate compositions".

390/Del/92. Atlas Powder Co., "An improved water-in-oil emulsion explosive composition and a method for preparing such composition". [Divisional date 18th November 1988].

391/Del/92. The Lubrizol Corporation, "Process for the preparation of a purified acrylamide sulfonic acid monomer derivative".

The 6th May 1992

392/Del/92. National Research Development Corporation, "Improvement in or relating to prosthetic cardiac valve and to the method of manufacturing same".

393/Del/92. Societe D'Exploitation Des Procédés Marechal (S.E.P.M.), "A selective device for electrical connection fitted with a safety disk".

394/Del/92. Societe D'Exploitation Des Procédés Marechal (S.E.P.M.) "A selective device for electrical connection fitted with a safety disk and a complementary disk".

The 7th May 1992

395/Del/92. Vikram Akhawat, "Refrigerator with independently sliding horizontal storage drawers".

396/Del/92. Vikram Akhawat, "Water based airconditioner".

397/Del/92. Cosmo Films Ltd., "A synthetic paper".

398/Del/92. Cosmo Films Ltd., "A synthetic paper having printability and writability properties".

399/Del/92. Shriram Institute for Industrial Research, "A process for the preparation of polymer cement".

400/Del/92. Shriram Institute for Industrial Research, "A process for the preparation of polymer cement".

401/Del/92. Digital Equipment Corporation, "License management system".

The 8th May 1992

402/Del/92. Society for the Advancement of environmental sciences, "A low cost filter for drinking water purification".

The 11th May 1992

403/Del/92. UOP, "Catalysts containing homogeneous layered clay/inorganic oxide".

404/Del/92. The Procter & Gamble Co., "Gel stick antiperspirant compositions containing 2-oxazolidinone derivative and process for making them".

405/Del/92. The Procter & Gamble Co., "Acid stable gel stick antiperspirant compositions, and process for making them".

406/Del/92. The Procter & Gamble Co., "Foam liquid hard surface detergent compositions".

407/Del/92. The Procter & Gamble Co., "Reclosable carton for granular materials".

408/Del/92. Synthetic Grass Maintenance Services Pty Ltd., "Device for cleaning particulate material". (Convention date 20th May 91) (Australia) and 8th April 92 (Australia).

The 12th May 1992

409/Del/92. The Gillette Co., "Women's shaver".

410/Del/92. W.R. Grace & Co-Conn., "High pore volume and pore diameter aluminum phosphate".

The 13th May 1992

411/Del/92. Ganapati Dadasahed Yadav & Other., "A process for enhanced oil recovery from petroleum reservoirs".

412/Del/92. Mike Baitel & Other, "Air induction control device".

413/Del/92. Allen-Bradley Co. Inc., "Electric current measurement apparatus for a solid state motor controller".

414/Del/92. Coulter Corporation, "Method and apparatus for obtaining an absolute white blood cell subset count and white blood cell multipart differential".

The 14th May 1992

415/Del/92. Mobil Solar Energy Corporation, "Improved solar cell and method of making same".

The 15th May 1992

416/Del/92. Council of Scientific & Industrial Research, "A process for the production of high concentration coal water mixture (CWM) fuel".

417/Del/92. Council of Scientific & Industrial Research, "An improved roof supporting system for supporting the roof of mines".

418/Del/92. Council of Scientific & Industrial Research, "A device useful for interfacing a time segmented speech interposition scrambler and a communication channel and a voice scrambling communication system incorporating the said device".

419/Del/92. Council of Scientific & Industrial Research, "An improved process for the preparation of D-ribose".

420/Del/92. Crystal Oil Aust Pty Ltd., "Process and product".

421/Del/92. Safe T Seal Ltd., "A tamperproof sealing arrangement for gas cylinders". (Convention date 24th May 91) (U.K.).

ALTERATION OF DATE UNDER SECTION—16

171140—Antedated to April 28, 1987.

(453/Cal/90).

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित अवलोकन, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।”

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बूक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है।

(अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी

अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या की साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl.: 55 E<sub>1</sub> + 55 F

171131

Int. Cl.: C-12Q 1/00, 1/04 +

GOIN 33/53, 33/532, 33/537, 33/553

A PROCESS FOR PREPARING A VISUALLY DETECTABLE ASSAYKIT FOR USE IN DETERMINING AND DETECTING AN IMMUNOLOGICALLY REACTIVE ANALYTE IN AN AQUEOUS SAMPLE.

Applicant : HYGEIA SCIENCES, INC., OF 330 NEVADA STREET, NEWTON, MASSACHUSETTS 02160-1432, U. S. A.

Inventors : (1) FRANCIS XAVIER COLE, (2) GENE A DAVIS AND (3) ERIC SIGILLO.

Application No. 681/Cal/1988 filed on 10th August, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

## 11 Claims

A process for preparing a visually detectable assaykit for use in determining and detecting an immunologically reactive analyte, such as herein described, in an aqueous sample comprising providing.

a labelled component constituted by the coupling product of a first immunologically reactive substance, such as herein described, and a metal-containing particle, such as herein described, of a size and character to facilitate the maintenance of a stable, dispersed suspension of the labelled component, and

a solid phase component constituted by the coupling product of a second immunologically reactive substance, such as herein described, and a solid phase particle, such as herein described, of a size and character to facilitate the maintenance of a stable suspension of the solid phase component and subsequent collection of a composite formed therefrom, the said components, when mixed, is capable of forming a mixed aqueous suspension of the said components, which, when brought into contact with a sample, to be analyzed for the analyte, is capable of causing the first substance of said labelled component and the second substance of said solid phase component (said substances being different) to bind directly or indirectly as a function of the presence of said analyte to thereby form a dispersed, collectable, solid phase, metal-containing composite, and the said composite being capable of being collected by a collector means for directly visually examining the composite to evaluate the presence of metal bound in the collected solid phase composite and thereby to detect or determine the presence of the analyte in the sample.

Compl. Specn. 47 pages.

Drgs. Nil.

Ind. Cl. : 40 F

171132

Int. Cl. : B01J 1/00

"AN APPARATUS FOR THE STORAGE AND CONTROLLED RELEASE OF THE PRODUCES THAT ARE UNDER PRESSURE OF A PROPELLANT".

Applicant and Inventors : WERDING, WINFRIED JEAN, 77 AVENUE DU GENERAL GUISSAN CH-1009 PULLY (SWITZERLAND) FEDERAL REPUBLIC OF GERMANY.

Application No. 889/Cal/1988 filed on 26th October, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 17 Claims

A apparatus for the storage and controlled release of products that are under pressure of a propellant, comprising :

a rigid outer container having a neck, said neck defining an opening into said outer container;

a flexible inner container hermetically secured to a valve unit, said valve unit including a passageway for fluid communication with the interior of said inner container, said passageway having sealing means, disposed therein, for controlling fluid flow therethrough, said sealing means being movable between a first position wherein fluid flow through said passageway is prevented and second position wherein fluid flow through said passageway is permitted, said sealing means being yieldably urged to said first position;

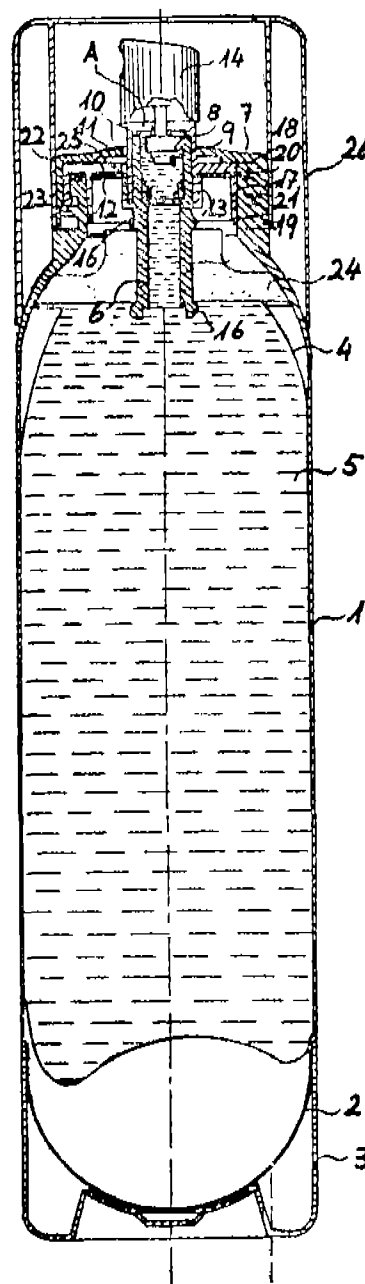
a valve plate, hermetically sealed to said valve unit, for hermitically sealing said neck of said outer container

an aperture formed in said valve plate, said aperture defining a fluid passageway into the interior of said outer container;

closure means for hermetically closing said aperture when the interior of said outer container is under pressure;

a dispenser head for dispensing said product under propellant pressure;

tube means for fluidically connecting said dispenser head and said valve unit, said tube means being slidably received in said passageway of said valve unit, said tube means being movable in response to manual pressure on said dispenser head from a first position wherein said tube means is in contact with said sealing means in said first position to a second position wherein said tube means holds said sealing means in said second position of said sealing means, said tube means returning to its first position upon release of manual pressure on said dispenser head by reason of the return of said sealing means to said first position of said sealing means.



Compl. Specn. 25 pages.

Drgs. 9 sheets.

Ind. Cl. : 266 F 187 H

171133

Int. Cl. : H04B 3/60

"COMMUNICATION SYSTEMS FOR USE IN AN AREA HAVING A HUMAN ENVIRONMENT DELIMITED FROM BELOW BY A FLOOR AND FROM ABOVE BY AN OVERHEAD ENVIRONMENT CLEAR FROM HUMAN PRESENCE".

Applicant and Inventors : (1) PAUL ANTON NYSEN, OF 6 VICTORY STREET, CLOVELLY, NEW SOUTH WALES, 2031, AUSTRALIA. (2) RAPHAEL TOBIAS, OF 42 MELBOURNE ROAD, EAST LINDFIELD, NEW SOUTH WALES, 2070, AUSTRALIA.

Application No. 890/Cal/88 filed on 27th October, 1988.

(Conventional of Application Nos. PI 5107, PI 8011, PI 8687 and PJ 0632 dated 27th October, 1987, 2nd May, 1988, 8th June, 1988 and 27th September, 1988) AUSTRALIA,

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

### 16 Claims

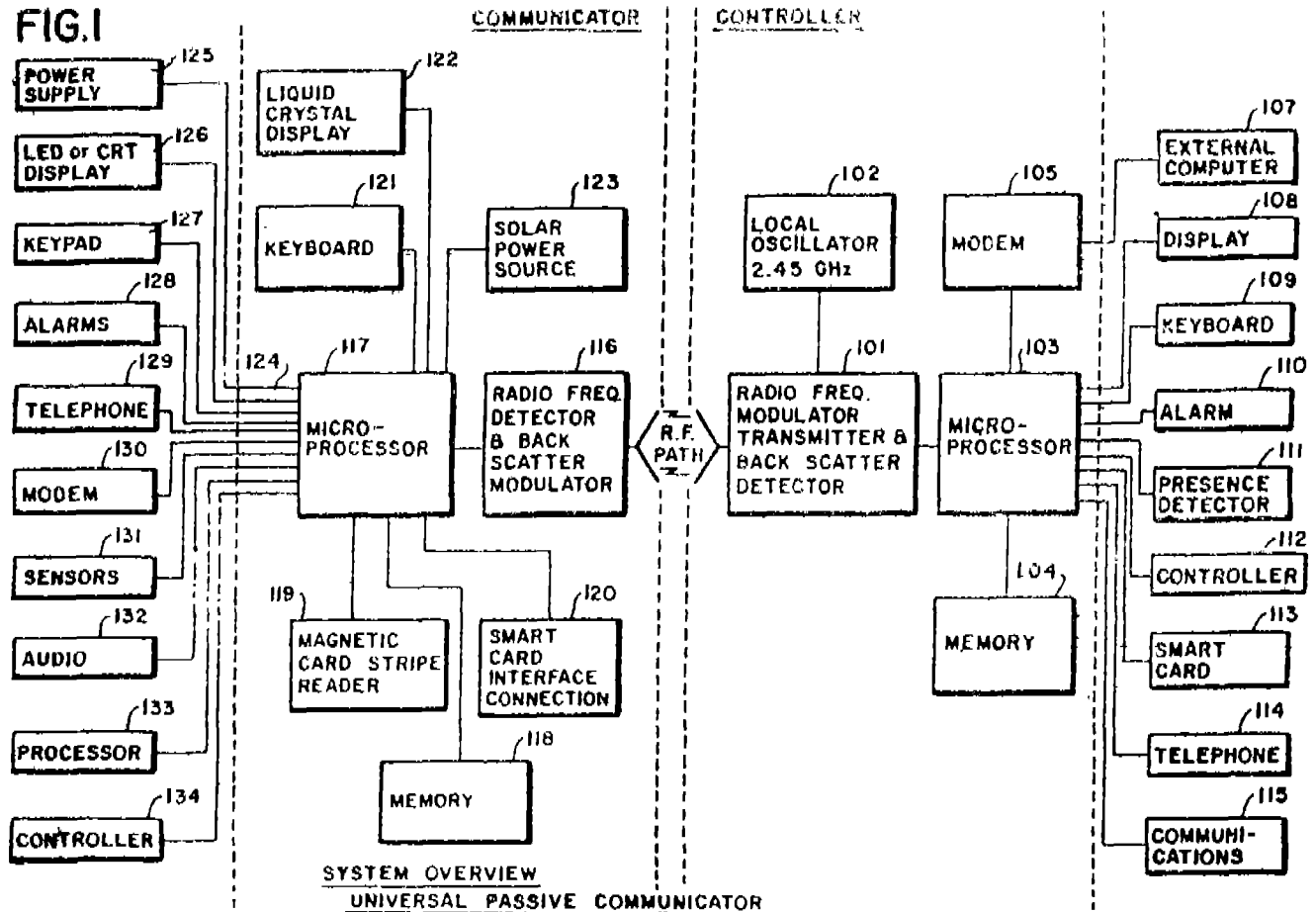
A communication system for use in an area having a human environment delimited from below by a floor and from above by a overhead environment substantially clear of human presence, said communication system comprising;

(a) at least one controller, arranged in said overhead environment, for providing a substantially downwardly directed

communication beam, and imparting first information to said beam; and

(b) at least one communicator, arranged in said human environment, having means for receiving said beam, detecting said first information and supplying said first information to an information user, said communicator including means for reradiating said beam in the direction of said controller and means for imparting second information to their reradiated beam.

FIG.1



Compl. Specn. 68 pages.

Drgs. 18 sheets.

Ind. Cl.: 127 I, 129 G

171134

Int. Cl.: F16L 25/00, F16L 27/00, F16L 13/00, F16B 2/00, F16B 4/00

"A CONNECTOR ASSEMBLY FORMED OF A PRESS-FIT SPLINED CONNECTION".

Applicant: EATON CORPORATION, AT EATON CENTER, CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors: (1) ERIC LEE STORM

Application No. 915/Cal/1988 filed on 2nd November, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

### 16 Claims

A connector assembly formed of a press-fit splined connection between a first rotary member having atleast one elongate groove and a second rotary member having atleast one elongate tooth operative to register with and be slidably received within the groove to provide the splined connection

between the first and second members wherein said press-fit connection is provided by:

the side walls of one of tooth or groove having a sinusoidal configuration such as herein described to provide convex surfaces that impinge upon the substantially straight side wall of the groove to tooth respectively adjacent thereto thereby providing the splined connection between said first rotary member and said second member.

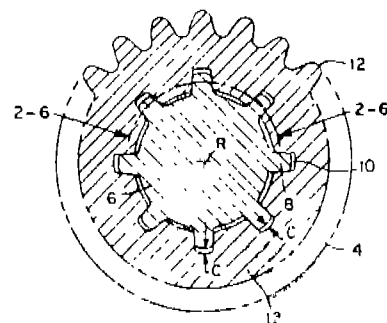


Fig. 1



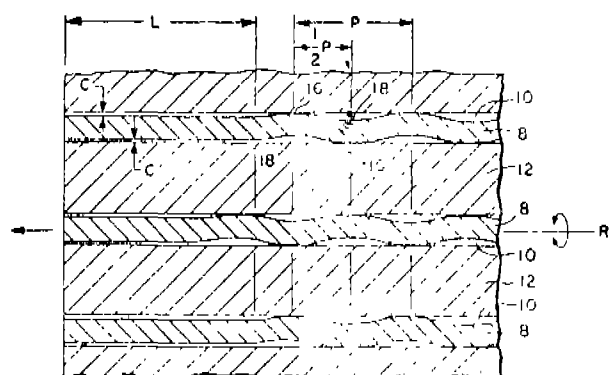


Fig. 2

Compl. Specn. 15 pages.

Drgs. 3 sheets.

Cl. : 32 A 1.

171135

Int. Cl. : C 09 B 29/00.

"PROCESS FOR PREPARING MONOAZO COMPOUNDS".

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

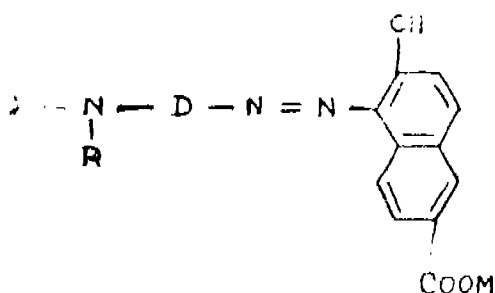
Inventor : (1) HARTMUT SPRINGER, (2) KURT HUSSONG.

Application No. 955/Cal/88 filed on November 16, 1988.

Appropriate office for opposition proceeding (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 16 Claims

A process for preparing a monoazo compound conforming to the general formula (1) of the accompanying drawings where the variables have the following meanings :—



Formula-1

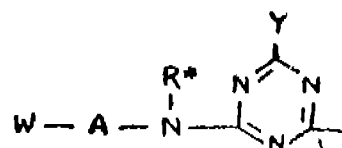
D is a para-or meta-phenylene group which can be substituted by 1 carboxy group or 1 or 2 sulfo groups, or is a naphthylene group which contains the azo group bonded in the 1- or 2 position and to which the grouping X-N(R)- is bonded in the 5- or 6-position and which can be substituted by 1 carboxy group of 1 or 2 sulfo groups.

R is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, or is a hydroxyl-, cyano-, carboxy-, sulfo-, sulfato- or phosphato- or phenyl- or sulfophenyl-substituted alkyl group of 1 to 4 carbon atoms.

M is a hydrogen atom or an alkali metal or one equivalent of a divalent metal,

2-177GI/92

X is a group of the general formula (2)



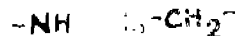
Formula-2

where

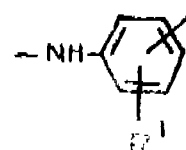
Y is halogen,

R\* is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, or is an alkyl group of 1 to 4 carbon atoms which is substituted by a sulfo, carboxy, phosphato, sulfato, hydroxy or cyano group,

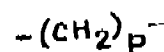
A is a direct bond or a group of the formula (3a), (3b) or (3c)



Formula (3a)



Formula (3b)

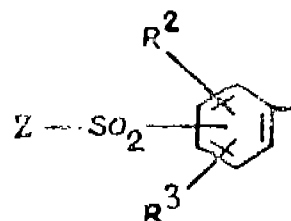


Formula (3c)

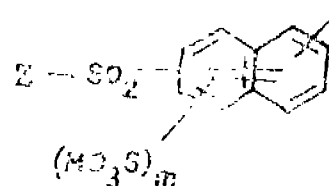
where

R1 is a hydrogen atom or a sulfo or carboxy group, the free bond in the benzene nucleus of the formula (3b) is bonded in the meta-position or preferably in the para-position relative to the group -NH- and p denotes the number 1, 2 or 3, and

W is a group of the general formula (4a) or (4b)



Formula (4a)



Formula (4b)

where

R2 is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms, a chlorine atom, bromine atom or a hydroxy or a sulfo, carboxy or nitro group or an alkylamino group of 1 to 4 carbon atoms, or an alkyl amino group of 1 to 4 carbon atoms which

substituted in the alkyl radical by hydroxy, sulfato sulfo, phosphato, alkanoyloxy of 2 to 5 carbon atoms or by carboxy-substituted alkanoyl-amido or 1 to 4 carbon atoms in the alkylene radical.

R<sup>+</sup> is a hydrogen atom or alkyl group of 1 to 4 carbon atoms or an alkoxy group of 1 to 4 carbon atoms,

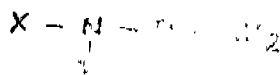
Z is a vinyl group or an ethyl group which is substituted in the  $\beta$ -position by a substituent which can be eliminated by alkali to form a vinyl group,

m stands for the number zero, 1 or 2 (in the case of m being zero, this group denoting a hydrogen atom)

and

M has the abovementioned meaning,

which comprises diazotizing an aromatic amino compound of the general formula (7) where X, R and D are as defined above, at a temperature of between  $-10^{\circ}\text{C}$  and  $+15^{\circ}\text{C}$  and at a pH of 2 or less than 2, and coupling the diazonium salt with 2-naphthol-6- carboxylic acid or a salt of this carboxylic acid at a temperature of between 0 and  $30^{\circ}\text{C}$  and at a pH between 3.5 and 7.5.



Formula 7

Compl. Specn. 27 pages,

Drgs. 31 sheets.

Cl. : 23 B & H, 143 D4.

171136

Int. Cl. : F 16 J 12/00, 21 C 13/00, 13/08, C 06 F 110/02, C 08 G 63/18.

"STRETCH BLOWMOLDED POLYETHYLENE TEREPHTHALATE WIDE MOUTH CONTAINER AND INTERMEDIATE ARTICLE".

Applicant : SONOCO PRODUCTS COMPANY, OF HARTSVILLE, SOUTH CAROLINA 29550, UNITED STATES OF AMERICA.

Inventors : (1) DONALD LAWRENCE GREENWOOD, (2) DONALD WARREN HAYWARD.

Application No. 972/Ca/1988 filed on 25th November, 1988.

Appropriate office for opposition proceeding (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

### 13 Claims

A container article fabricated from an intermediate article formed by stretch blowmolding an injection-molded preform of polyethylene terephthalate and being suitable

for packaging contents under pressure; said contained article being characterized by a base construction which will withstand internal pressure with controlled minimal distortion and comprising a tubular body portion of high biaxial molecular orientation; and a 'champagne' type base portion of low biaxial molecular orientation and integrally extending from the lower end of said tubular body portion and constructed to provide freestanding ability to the fabricated container and to control distortion by internal pressure, said champagne' type base portion comprising an outer peripheral wall integrally extending at one end from the lower end of said tubular body portion and defining a spherical segment of a predetermined radius, a standing ring integrally extending at one end from the other end of said outer peripheral wall and defining an annular toroidal segment of a predetermined radius, and an inner standing wall integrally extending at one end from the other end of said standing ring and defining a frustum of a right circular cone, and a central dome of essentially non-biaxial molecular orientation and integrally extending from the other end of said inner standing wall and defining a spherical segment of a predetermined radius.

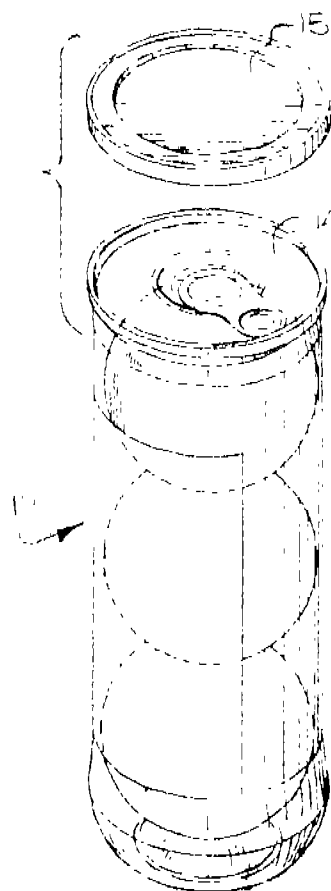


Fig. 1

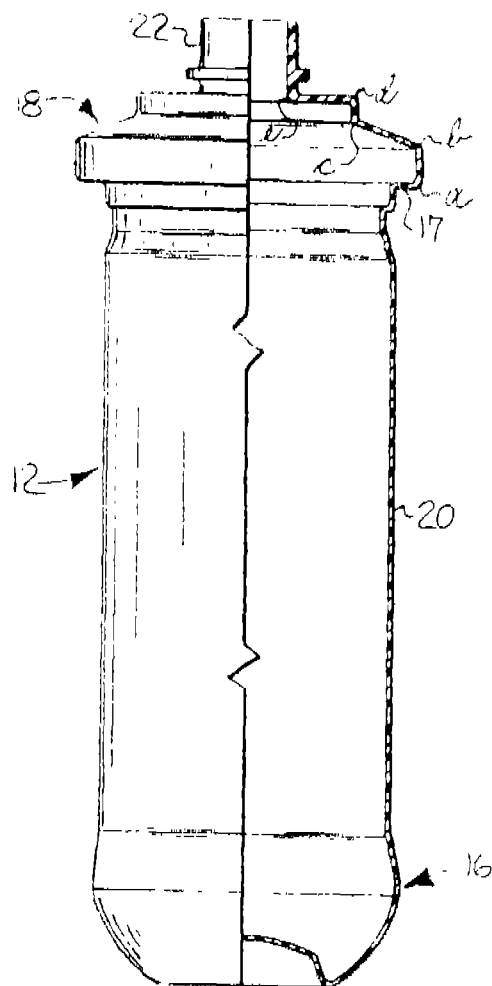
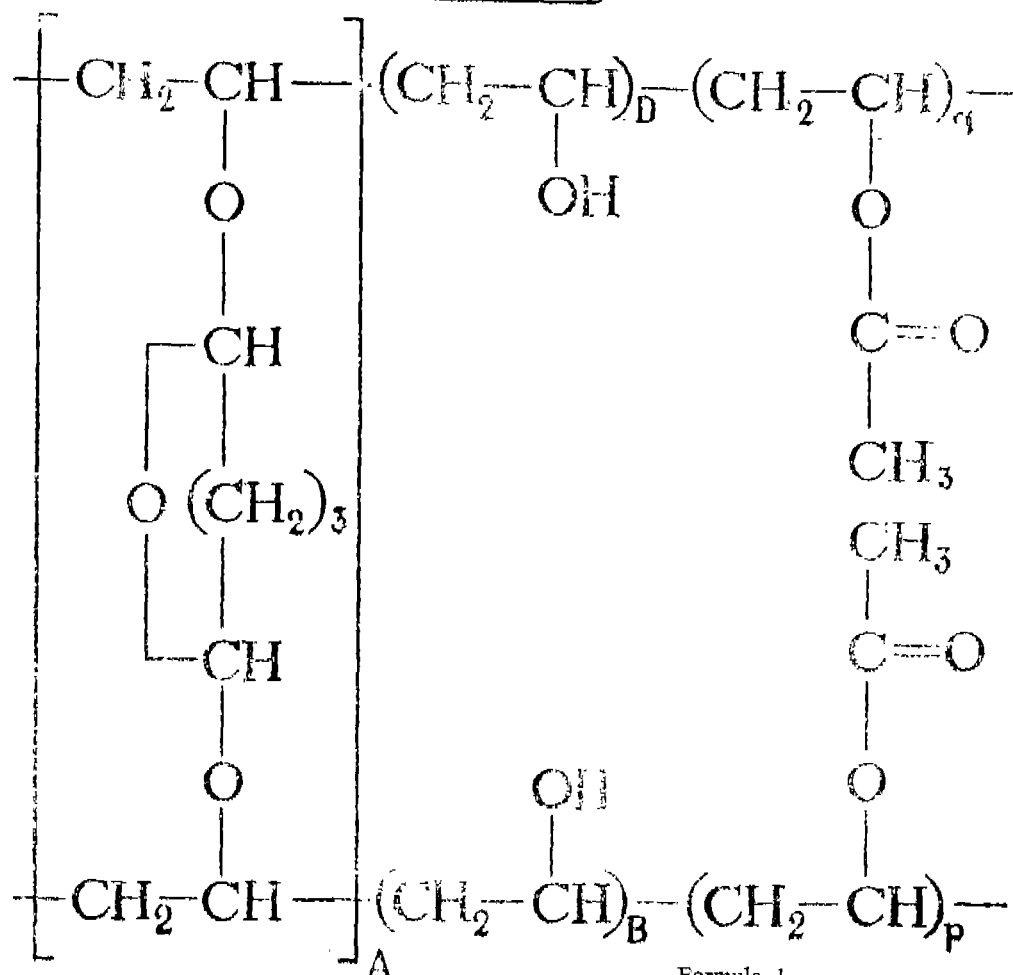


Fig. 5



Formula 1

Ind. Cl. : 32 E.

171137

Inventors : (1) MICHAEL MARKEL DACH.

Int. Cl. : C08F 118/08.

Application No. 299/Cal/89 filed on 19th April, 1989.

"PROCESS FOR PREPARING COPOLYMERS OF VINYL ALCOHOL WITH VINYLACETATE CROSS-LINKED BY GLUTARIC ALDEHYDE".

Applicant and Inventors : (1) ANATOLY YAKOVLEVICH SOROKIN USSR, LENINGRAD, TIKHORETSKY PROSPEKT, 10, KORPUS 2, KV. 18 (2) VALENTINA ALEXEEVNA KUZNETSOVA USSR, LENINGRAD, ULITSА BELY KUNA, 22, KORPUS 3, KV. 14 (3) MARK EDUARDOVICH ROZENBERG USSR, LENINGRAD, KONDRATIEVSKY PROSPEKT, 79 KV. 13 (4) PETER PROKOFIEVICH DENISENKO USSR, LENINGRAD, KLJUCHEVYA ULITSА, 3, KV. 35 (5) ARTUR VASILIEVICH RAK USSR, LENINGRAD, SHOSSE REVOLJUTSI, 33, KORPUS 1, KV. 149. (6) ARNOLD ARAMOVICH ADAMIAN USSR, MOSCOW, I-Y BALTIISKY PEREULOK, 23/25, KV. 66 (7) IL GARAFEEVICH GILMUTDINOV USSR, KAZAN, ULITSА MAYAKOVSKOGO, 19 KV 32 (8) VITALY ALEXANDROVICH KHLKO USSR, LENINGRAD, PRIMORSKY PROSPEKT, 19, KV. 24 (9) ANDREI KONSTANTINOVICH REVSKOI USSR, MOSCOW, TALLINSKAYA ULITSА, 12, KV. 407 (10) KONSTANTIN MIKHAILOVICH LISITSYN USSR, MOSCOW ULITSА KIBALCHICHА, 2, KORPUS 1, KV. 108.

Application No. 1005/Cal/1988 filed on 5th December, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 1 Claim

A process for preparing copolymers of vinyl alcohol with vinylacetate cross-linked by glutaric aldehyde having the structural formula (I) of the accompanying drawings wherein :—

$$\frac{B + P + D + q}{A} = n \approx 30 \div 125 \text{ and } \frac{P + q}{B + D} = 1 \leq 0.2$$

comprising mixing an aqueous solution of polyvinyl alcohol with a content of acetate groups of not more than 20 mol.% with glutaric aldehyde at a ratio of 1,000 molar units of polyvinyl alcohol per 8—40 moles of glutaric aldehyde under static conditions without stirring at a temperature of from 15 to 80°C, followed by the addition of a mineral acid such as herein described to a pH of the reaction medium of 1—3 with the formation of the reaction mass in the form of a hydrogel containing product such as herein described, disintegrating the reaction mass in a non-dehydrating medium such as herein described and separation of the disintegrated hydrogel from the resulting suspension, treating said hydrogel successively with water and a polar solvent and drying and recovering the co-polymer in a known manner.

Compl. Specn. 24 pages.

Drg. 1 sheet.

Ind. Cl. : 88 A &amp; D/F.

171138

Int. Cl. : B01D 47/02, C01J 3/48, B01J 19/00.

"A REACTOR FOR GASIFYING CARBONACEOUS MIXTURE AND HAVING IMPROVED QUENCH RING AND DIP TUBE ARRANGEMENT".

Applicant : TEXACO DEVELOPMENT CORPORATION, 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10650, UNITED STATES OF AMERICA.

## 6 Claims

A reactor for gasifying a carbonaceous fuel mixture to produce a hot effluent comprising a residual slag and useful synthesis gas, said reactor including :—

a shell having a reaction chamber within which the fuel mixture is gasified,

a quench chamber in said shell holding a water bath in which said hot effluent is cooled,

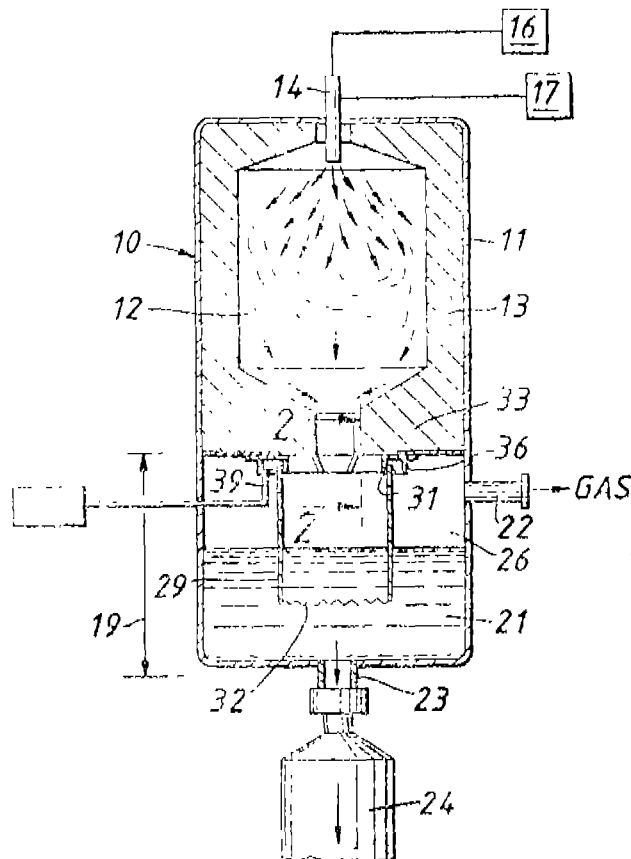
a constricted throat communicating the reaction chamber with said quench chamber,

a dip tube having guide walls downwardly extending from said constricted throat to define an effluent guide passage for conducting hot effluent from said constricted throat into the water bath,

a quench ring adjacent to said dip tube and communicated with a pressurized source of water to wet the wall of said guide passage,

said quench ring including an inner wall which defines a frusto-conical cavity in alignment beneath said constricted throat, and

a temperature resistant collar registered in said frusto-conical cavity and defining a portion of said effluent guide passage.



Compl. Specn. 12 pages.

Drgs. 3 sheets.

Ind. Cl. : 71 B.

171139

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

Int. Cl. : E02F 3/00.

"AN OUTFIT FOR EARTH WORKS HELD BY A VEHICLE, IN PARTICULAR FOR THE DRIFT MINING, IN PARTICULAR A SHOVEL DOZER".

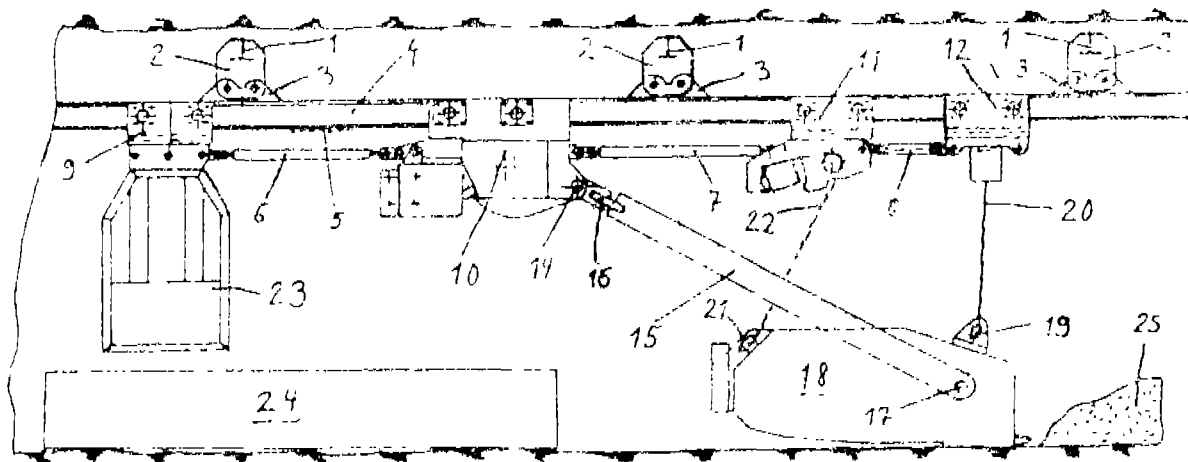
Applicant : WALTER BECKER GMBH, OF BARBARASTRASSE 12, D-6605 FRIEDRICHSTHAL, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) HORST SIEFRIN  
(2) WERNER MICHAELY

Application No. 397/Cal/1989 filed on 24th May, 1989.

## 13 Claims

An outfit (14—22) for earth works held by a vehicle (6—12) (23), in particular for the drift mining, in particular shovel dozer (6.23), which has an extension arm (15) at the vehicle (6—12, 23), this extension arm (15) can be slewed up and down around a horizontal axis (14) stretching across the direction of movement of the vehicle and has a shovel (18) at the extension arm (15), this shovel (18) can be slewed around an axis (7) parallel to the said axis, wherein the vehicle (6—12—23) is a hanging track vehicle (6—12, 23) guided by rails and the outfit can be lifted and lowered from this stretched downwards.



(Comp. Specn. 12 Pages;

Drg. 1 Sheet.)

Ind. Cl. : 63 I

171140

(Divisional of application No. 339/Cal/87 ante dated to 28-487).

Int. Cl. : H03B, 19, 00

"VARIABLE-SPEED PUMPED-STORAGE SYSTEM".

Applicant : HITACHI LTD., OF 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

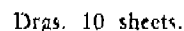
Inventors : (1) AKIHIRO SAKAYORI  
(2) TAKAO KUWABARA  
(3) AKIRA BANDO  
(4) YASUTERU OONO  
(5) SRIGEAKI HAYASHI  
(6) ISAO YOKOYAMA  
(7) KENJU OGIWARA

Application No. 453/Cal/1990 filed on 29th May, 1990.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A variable-speed pumped-storage system including a generator-motor or motor having a primary winding connected through a frequency converter to an electric power system, and a pump-turbine or pump directly coupled to the shaft of said generator-motor or motor, said system comprising means for controlling said frequency converter according to an error signal between a power command signal commanding a power required for said pumped storage system and a power signal indicative of an actual output power of said generator-motor.

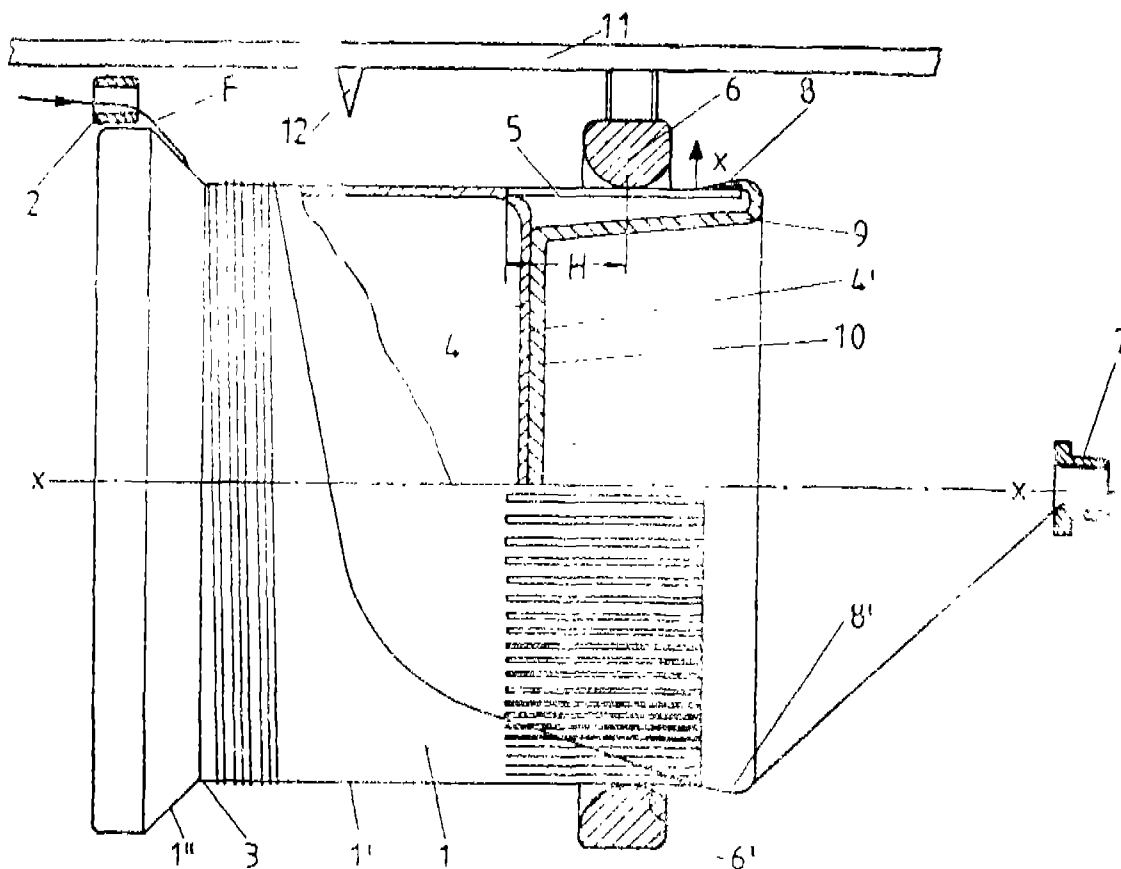


## 11 Claims

A thread feeding device comprising a storage member to which the thread is adapted to be fed tangentially and would on an outer winding surface of the storage member, and from which the thread is adapted to be withdrawn over a head end of the storage member between a ring disposed in front of the head end of the storage member and plurality of elastic fingers, said ring being mounted displaceably in axial direction of said storage member to vary thread withdrawal tension, one side of each of the said fingers being wider than the other and one end of said fingers being mounted on the said storage member projecting beyond the winding surface of said storage member in axial parallel extension of said winding surface, the said fingers being formed as individual tongues resting with their respective wide side against the inner surface of the ring and are spring biased radially outwardly in a direction of resting application of their wide sides against said inner surface of the ring, and said fingers each having another free end in an annular collar

is disposed in front of said head end of the storage member, radially outwardly engages over said ends of said fingers abuttingly limiting radially outward movement of said free ends of said fingers by their radially outward spring biasing, said annular collar forming an outer rounded thread slide surface over which said thread is adapted to be withdrawn and said

collar forming an inner space into which said free ends of said fingers extend freely, the said free end of said fingers being deflectable radially inwardly said ring defining an effective free lever arm of the said tongues between said one end and a resting point on said wide side against the inner surface of said ring.



(Compl. 12 Pages;

Drwg. 1 Sheet)

Ind. Class : 172-C, 1 [GROUP-XX]

171142

Int. Cl.<sup>4</sup> : D 01 G 15/74

## 8 Claims

# A DEVICE FOR REMOVING SHORT FIBRES FROM A MASS OF FIBERS.

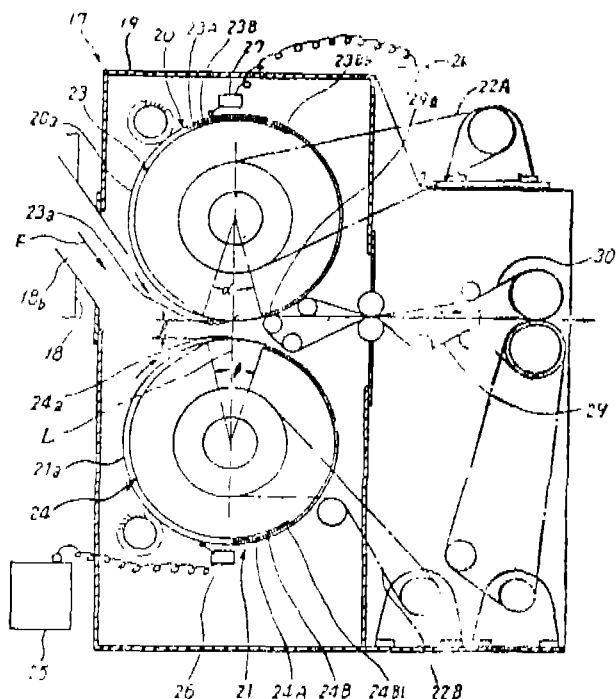
Applicant : JAPAN COTTON TECHNICAL AND ECONOMIC RESEARCH INSTITUTE OF MENGYOKAIKAN OF 3-8, BINGO-CHO, HIGASHI-KU, OSAKA, JAPAN. A COMPANY INCORPORATED UNDER THE LAWS OF JAPAN

Inventors : (1) YUZURU NAKANO  
(2) SYUNICHI TABATA  
(3) HIROAKI YAMAGUCHI  
(4) HIROSHI ARAKI  
(5) AKIRA KONDO  
(6) SHINZO NISHIMURA  
(7) YOSHIAKI YAMAOKA  
(8) AKIHIKO TAKESHITA  
(9) YOJI YAMADA.

Application No. 157 MAS/88 filed March 10, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A device for removing short fibers from a mass of fibers comprising a pair of contra-rotatable perforated cylindrical bodies having parallel axes with a predetermined space therebetween, the said space being sufficient to keep said perforated cylindrical bodies out of peripheral contact with other feeding means disposed in the rotation-upstream side of the space between said pair of perforated cylindrical bodies for feeding said mass of fibers; means for applying a high voltage across said pair of perforated cylindrical bodies for orienting and holding long fibers contained in said mass of fibers approximately perpendicularly to the peripheral surfaces of the perforated cylindrical bodies by static electricity, and reciprocating short fibers contained in said mass fibers between the perforated cylindrical bodies, suction means disposed inside at least one of said perforated cylindrical bodies for removing said short fibers reciprocating between said perforated cylindrical bodies through holes provided therein and conveyor means for delivering the said mass of long fibers to the next processing sequence.



Com. 21 pages;

Drwgs-5 sheets

Ind. Class-34-A-[GROUP-X]

171143

Int. Cl. -D 01 F 8/00

**A METHOD OF MANUFACTURING A THERMAL INSULATING MATERIAL**

Applicant : ALBANY INTERNATIONAL CORPORATION, A BRITISH COMPANY OF 40/43 CHANCERY LANE, LONDON WC2A 1JQ, UNITED KINGDOM.

Inventors : (1) JAMES G. DONOVAN  
(2) ZIVILE M. GROH

Application No. 199/MAS/88 filed March 29, 1988.

Convention date 03 August, 1987 (No. 8718330; United Kingdom).

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims (No drawing)

A method of manufacturing a thermal insulating material comprising the steps of

forming a fibre assembly of 70 to 95 percent by weight of synthetic polymeric microfibrils having a diameter of 3 to 12 microns; and

5 to 30 percent by weight of synthetic polymeric macrofibrils having a diameter not less than 12 microns,

shaping the assembly to the required shape and bonding in a known manner between at least some of the fibres at their contact points to obtain a density of the resultant structure within the range 3 to 16 kg/m<sup>3</sup> (0.2 to 1.0 lb/ft<sup>3</sup>) wherein the bonding is carried out without significant loss to thermal insulating properties compared with the unbonded assembly.

Com.-43 pages;

Ind. Class-131-B<sub>1</sub> & B<sub>4</sub> -[GROUP-XXVIII (3)] 171144

Int. Cl. : E 21 B 10/18

**A WELL PENETRATOR**

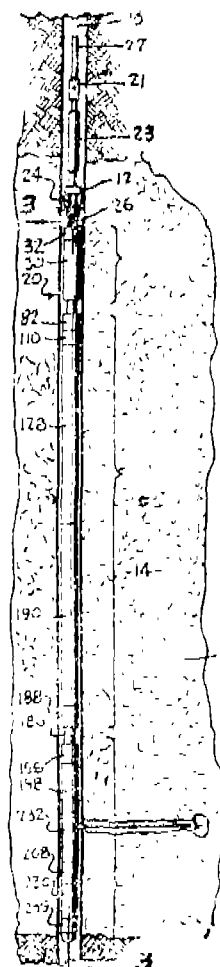
Applicants & Inventors : (1) HERMAN J SCHELLSTEDE, (2) ROBERT W MCQUEEN & (3) ALAN D PETERS, CITIZENS OF THE UNITED STATES OF AMERICA, OF 324, DUPELIER AVENUE, NEW IBERIA, LOUISIANA 70560, U.S.A. OF 14727 CINDYWOOD DRIVE, HOUSTON TEXAS 77079 U.S.A., AND OF 8211 KINGSBROOK 102, HOUSTON, TEXAS 77024, U.S.A.

Application No. 264/MAS/88 filed April 25, 1988.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A well penetrator comprises a housing means, a working fluid input means in said housing means, an outwardly movable punch member having an inner end and an outer end, said outer end having casing cutting means for cutting an opening in a casing when moved forcefully against such casing means supporting said punch member for movement relative to said housing means between a retracted position in which said outer end of said punch member is positioned substantially within the confines of said housing means and an extended position in which said outer end of said punch member is positioned outwardly of said housing means, power actuated punch drive means mounted in said housing means for moving said punch member between its retracted and extended positions, high pressure hose means having nozzle means mounted on one end for movement in said punch member between a retracted position in which said nozzle means is positioned internally of said punch member and an extended position in which said nozzle means is positioned externally of said punch member for discharging a high pressure jet outwardly beyond the outer end of said punch member for cutting and removing the surrounding earth formation, nozzle positioning drive means mounted in said housing means for moving said nozzle toward its extended position for retracting said nozzle toward its retracted position, wherein the control means mounted in said housing means responsive to the input of working fluid at a pressure above a desired pressure for substantially simultaneously actuating said punch drive means and said nozzle positioning drive means to substantially simultaneously effect the initiation of movement of said punch means and said nozzle means from their retracted positions toward their extended positions.



(Com. 34 Pages;

Drwgs. 11 Sheets.)



Ind. Class : 32-E &amp; 40-B [GROUPS IX(1) &amp; IV(1)] 171145

Int. Cl.<sup>4</sup> : C 08 F 4/64

A PROCESS FOR PRODUCING STEREO REGULAR POLYMERS HAVING A NARROW MOLECULAR WEIGHT DISTRIBUTION.

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, U.S.A.

Inventors : (1) ROBERT CONVERSE BRADY III  
(2) FRANCIS GREGORY STAKEN  
(3) HAN TAI LIU  
(4) ALLEN NOSHAY

Application No. 331/MAS/88 filed May 19, 1988.

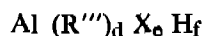
Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims. (No drawing)

A process for producing stereoregular polymers having a molecular weight distribution of less than 5.0 and an isotactic index in excess of 96 percent comprising the steps of polymerising an alpha-olefin having 3 to 8 carbon atoms in a fluid bed reactor, at a pressure not greater than 7000 kpa and a temperature between 100°C to 160°C with a catalytically effective amount of a catalyst system consisting of :

(a) a solid catalyst component containing magnesium, titanium, halide and a polycarboxylic acid ester containing two coplanar ester groups attached to adjacent carbon atoms obtained by halogenating a magnesium compound of the formula  $MgR'R''$ , wherein  $R'$  is an alkoxide group or an aryloxy group and  $R''$  is an alkoxide group or an aryloxy group or a halogen, with a halogenated tetravalent titanium compound containing at least two halogen atoms, in the presence of a halohydrocarbon and a polycarboxylic acid ester containing two coplanar ester groups attached to adjacent carbon atoms; treating the halogenated product with additional halogenated tetravalent titanium compound; washing the treated product with an inert hydrocarbon to remove unreacted titanium compounds; and recovering the solid catalyst;

(b) an organoaluminium cocatalyst having the formula



wherein X is F, Cl, Br, I or OR''',

$R'''$  and  $R''''$  is same or different and are saturated hydrocarbon radicals containing 1 to 14 carbon atoms, and if desired, substituted with a substituent which is inert under the reaction conditions employed during polymerisation,

d is 1 to 3

e is 0 to 2

f is 0 or 1 and

$d+e+f=3$ ; and

(c) an electron donor containing a silicon-oxygen-carbon linkage having the formula



wherein

$R''''$  is hydrocarbon radical containing 1 to 20 carbon atoms,

Y is -OR'''' or -OCOR wherein  $R''''$  is a hydrocarbon radical containing 1 to 20 carbon atoms,

X is hydrogen or halogen,

m is an integer having a value of 0 to 3,

n is an integer having a value of 1 to 4,

p is an integer having a value of 0 to 1, and

$m+n+p$  is equal to 4,

said catalyst system having an atomic ratio of aluminium in the organoaluminium cocatalyst to silicon in the electron donor in the range of 0.5:1 to 100:1 and an atomic ratio of aluminium in the organoaluminium cocatalyst to titanium in the solid catalyst component in the range of 5:1 to 300:1.

(Com. 47 Pages)

Ind. Cl. : 129 G [GROUP-XXXV].

171146

Int. Cl.<sup>4</sup> : B 24 D 7/02.

"A GRINDING WHEEL SYSTEM FOR GRINDING ROCK ROLLER BIT COMPONENTS".

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

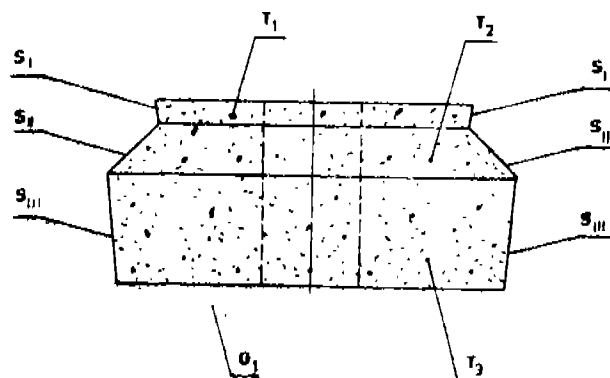
Inventors : 1. SESHAGIRI RAO RAVISHANKAR, 2. AMITAVA SHYAM CHOUDHURY, 3. RANGARAJAN SRINIVASAN.

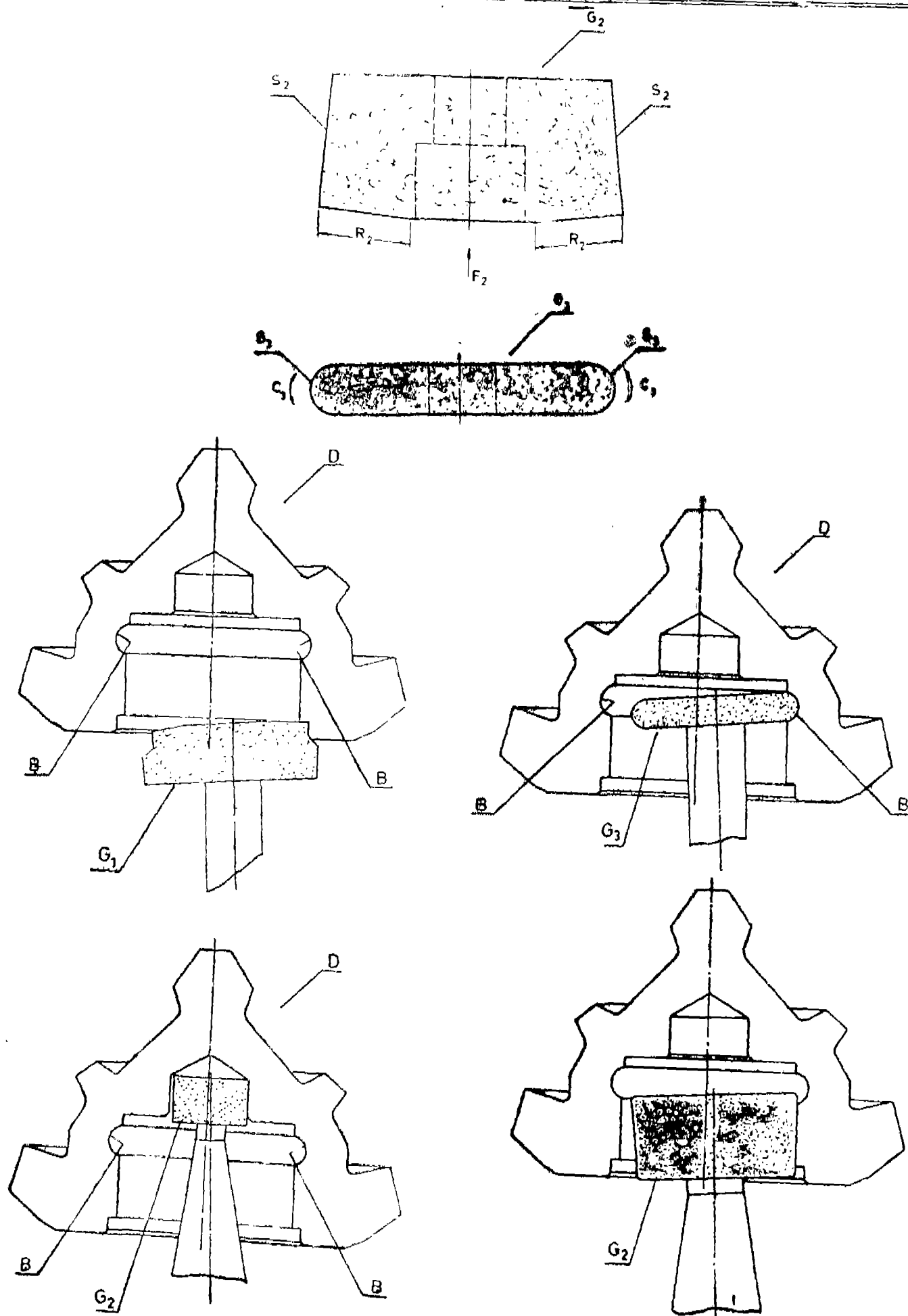
Application No. 351/Mas/88, filed May 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

2 Claims

A grinding wheel system for grinding rock roller bit components comprising in combination a first grinding wheel having three stepped tapering grinding surfaces formed by three trapezoidal sections juxtaposed face to face; a second grinding wheel having a tapering grinding surface, with one of its faces bevelled over an annular region thereof adjacent the said tapering grinding surface; and a third grinding wheel having a grinding surface of an unbroken surfilinear contour substantially matching the contour of the ball track of the said rock roller bit.





Compl. Specn. 7 pages.

Drgs. 2 sheets.

Ind. Cl. : 129-C-[GROUP-XXXV].

171147

Int. Cl.<sup>4</sup> : E 21 B 10/08.

A ROCK ROLLER BIT AND A METHOD OF MANUFACTURING THE SAME.

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

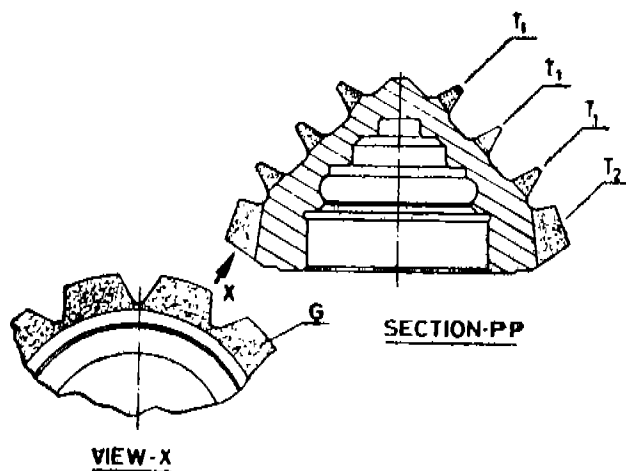
Inventors : (1) SRINIVASA VENKATESH PRASAN, (2) AMITAVA SHYAM CHOUDHURY, (3) RANGARAJAN SRINIVASAN.

Application No. 352/Mas/88 filed May 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

## 3 Claims

A method of manufacture of rock roller bits comprising the plasma transferred arc deposition of composite hard facing material, on the cutting elements and areas prone to wear including shirrtain areas of said bits, wherein the composite hardfacing material is composed of 20% to 90% tungsten carbide and 10% to 80% of a material selected from stellite, nickel and cobalt, in the proportion between 10% to 80% stellite and 90% to 20% tungsten carbide w/w; 10% to 80% nickel and 90% to 20% tungsten carbide w/w; 10% to 60% cobalt and 90% to 40% tungsten carbide w/w.



Comp. Specn. 6 pages;

Drgs. 5 sheets.

Ind. Cl. : 39-0 [III].

171148

Int. Cl.<sup>4</sup> : C 01 B 33/28.

A PROCESS FOR PREPARING ZSM-5 HAVING TWO DIMENSIONS OF AT LEAST ABOUT 0.05 MICRON AND A THIRD DIMENSION OF LESS THAN ABOUT 0.02 MICRON.

Applicants : MOBIL OIL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, OF 150 EAST 42ND STREET NEW YORK 10017, U. S. A.

Inventors : DONALD JOSEPH KLOCKE, SOWAMI-THRI KRISHNAMURTHY.

Application No. 587/Mas/88 filed on 16th August 1988. Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

## 7 Claims

A process for preparing ZSM-5 having two dimensions of at least about 0.05 micron and a third dimension of less than about 0.02 micron comprising the steps of crystallizing ZSM-5 from a continuously agitating reaction mixture containing sources of silica, alumina and hydroxyl ions and free of organic directing agents such that the solid content of the reaction mixture is at least 35 weight percent and the OH-/SiO<sub>2</sub> molar ratio is at least 0.11 and having a SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> molar ratio of 25 to 50 and recovering the ZSM 5 in a known manner.

Compl. Specn. 14 pages;

Drg. NIL

Ind. Cl. : 32 F 2(b) [IX(1)]

171149

Int. Cl.<sup>4</sup> : C 07 D, 223/00.

A PROCESS FOR EXTRACTING CAPROLACTUM FROM DISTILLATION RESIDUE OBTAINED DURING PURIFICATION OF CAPROLACTUM.

Applicants : BASF AKTIENGESellschaft, A GERMAN JOINT STOCK COMPANY, ORGANISED AND UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : HUGO FUCHS.

Application No. 591/Mas/88 filed on 18th August 1988.

Appropriate office for the opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office Branch, Madras.

## 6 Claims

A process for extracting caprolactum from distillation residue obtained during purification of caprolactum comprising the steps of heating the distillation residue in the presence of 2 to 10% by weight of sodium hydroxide or potassium hydroxide per part by weight of distillation residue and in the presence of 1 to 10 parts by weight of high boiling hydrocarbon per part by weight of distillation residue at from 250°C to 500°C and continuously removing caprolactum from the reaction mixture by a known manner.

Comp. Specn. 8 pages

Drgs. Nil

Ind. Cl. : 172-D.8—[GROUP-XX]

171150

Int. Cl.<sup>4</sup> : D 01 B 7/04

A MULTIEND SILK REELING MACHINE.

Applicant : THE CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE, CENTRAL SILK BOARD, MINISTRY OF TEXTILES, GOVERNMENT OF INDIA, B.T.M. LAYOUT, MADIVALA, BANGALORE-560 068, A STATUTORY BODY UNDER THE GOVERNMENT OF INDIA.

Inventor: THAMMANNA NINGAPPA SONWALKAR.

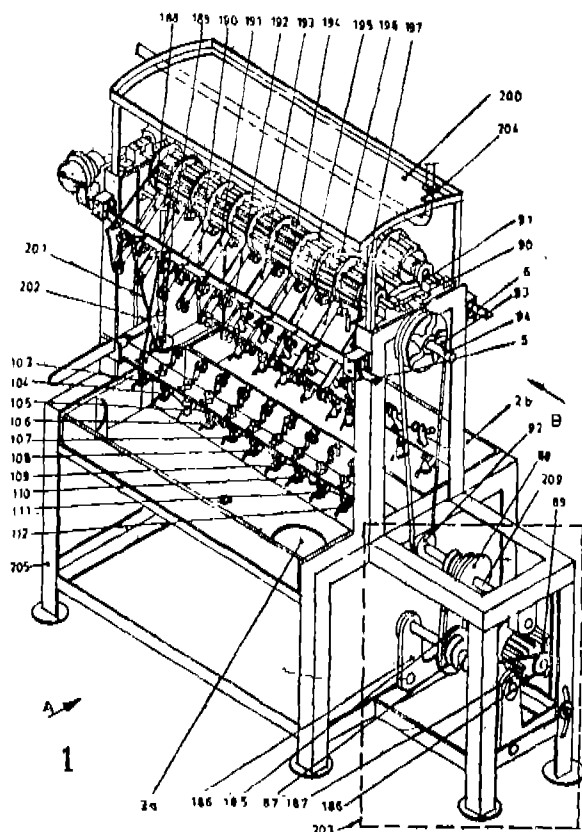
Application No. 878/Mas/88 filed December 12, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras.

### 7 Claims

A multiend silk reeling machine comprising

(i) a frame housing reeling basin with atleast 10 ends for accommodating water and cooked cocoons, at least said one end having an individual stopper, the said basin being provided with a Jettebouts capable of picking up the formed silk threads from the reeling basin, and thread distributors which traverse on to the reel, the said machine having a main drive motor provided with step up pulleys having provision for atleast two variable reeling speeds, and having croissure pulleys provided at an angle over the basin wherein the Jettebouts are capable of picking up the thread from the reeling basin and passing on to the croissure pulleys.



Compl. Specn. 13 pages;

Drwgs. 13 sheets

### OPPOSITION PROCEEDINGS

The opposition entered by M/s. VIP Industries Limited to grant of a patent on the application for Patent No. 169190 as notified in Gazette of India, Part III, Section 2, dated the 28th March, 1992 is deemed to have not been launched and a patent has been ordered to be sealed on the application.

### CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by ALBANY INTERNATIONAL CORPORATION, in connection with Patent Application No. 199/Mas/88 (1711.43) has been allowed.

PATENT SEALED ON 03-07-92

162796 167221D\* 168609D\* 168677 168678 168679\*  
168680 \* 168732 \* 168738 \* 168739 \* 168740 D\* 168798 D\*  
169327 169494 D\* 169497 \* 169508 169547 \* 169549 \*  
169689

\*Patent shall be deemed to be endorsed with the words "LICENCE OR RIGHT" under Section 87 of the Patent Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG PATENT.

Cal—12, Del—05, Mas—01 and Bom—01.

### AMENDMENT PROCEEDING UNDER SECTION-557

The amendments proposed by KSB Aktiengesellschaft of Johann-Klein-Strasse-9, D-6710 Brankenthal, Federal Republic of Germany in respect of Patent No. 165644 as advertised in Part III, Sec. 2 of the Gazette of India on the 28th September, 1991 and no opposition being filed within the stipulated period, the said amendments have been allowed.

### REGISTRATION OF ASSIGNMENT, LICENCES ETC. (PATENTS)

Licences affecting the interests of the Original Patentees have been registered in the following case. The number of the case is followed by the name of the party claiming interests.

156855—Shanti Coal Pvt. Ltd.

156855—Maa Vindhya Vasini Special Fuels Pvt. Ltd.

156855—Basic Fuels Pvt. Ltd.

### RENEWAL FEES PAID

150110 151079 151676 152699 162741 153472 153907 154474  
154573 154628 155077 155871 156018 156560 156644 156698  
156827 156898 156921 157765 157937 157978 157980 158700  
159039 159103 159570 159737 159919 160082 160693 161010  
161245 161400 161697 161741 161818 161819 161930 161937  
161984 162369 162385 162487 162589 162868 163116 163435  
163579 163600 163699 163959 164017 164118 164119 164140  
164426 164987 165150 165316 165459 165683 165734 165847  
165849 166362 166423 166881 167693 168339 168659 168758  
168922 168950

### CESSATION OF PATENTS

149813 149831 149856 149888 149907 149909 149913 149915  
149941 149944 149950 149957 149984 149987 149994 150010  
150016 150021 150033 150034 150045 150048 150079 150089  
150096 150112 150117 150119 150132 150145 150151 150158  
150169 150205 150230 150232 150245 150246 150251 150260  
150265 150285 150297 150304 150307 150333 150345 150361  
150363 150365 150372 150374 150376 150386

### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160566 granted to Ghanshyam Das Agrawal for an invention relating to "a ventriculo artial or ventriculo peritoneal shunt valve for shunting of cerebrospinal fluid."

The Patent ceased on the 23rd July, 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 18th July, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam

Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162414 granted to Gujarat Narmada Valley Fertilizers Co. Ltd for an invention relating to "an apparatus for refrigeration by use of liquid nitrogen".

The Patent ceased on the 11th April 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 13th June, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162560 granted to Brajendra Narayan Mazumdar for an invention relating to "electronic flickering road direction indicator for two wheelers (including minimotor cycle/bike, moped, bicycles etc.).

The Patent ceased on the 14th October 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 18th July, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 163492 granted to IBP CO. LTD. for an invention relating to "an improved solar panel having tubular solar heat collectors."

The Patent ceased on the 14th October 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 13th June, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 166847 granted to Pennwalt Corporation for an invention relating to "Process for desulfurizing Organic polysulfides."

The Patent ceased on the 27th November 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 13th June, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 167632 granted to National Remote Sensing Agency for an invention relating to "an optical reflecting projector."

The Patent ceased on the 9th April 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated 18th July, 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 1st October, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Name Index of Application for Patents in respect of Patent Office Calcutta & its branches for the month of January, 1992 (Nos. 01/Cal/92 to 70/Cal/92, 01/Bom/92 to 36/Bom/92, 01/Mas/92 to 67/Mas/92 and 01/Del/92 to 73/Del/92).  
Name and application No.

#### CALCUTTA

(01/Cal/92 to 70/Cal/92).

#### —A—

ABB-Henschel Waggon Union GmbH.—21/Cal/92.

ABB Lummus Crest Inc.—22/Cal/92.

American Cyanamid Co.—37/Cal/92.

Armco Steel Co.—18/Cal/92.

Aura Systems Inc.—47/Cal/92.

Avinash, D.R.—23/Cal/92.

#### —B—

BASF Corporation—11/Cal/92.

BTR PLC.—04/Cal/92, 05/Cal/92 & 46/Cal/92.

Balmer Lawrie & Co. Ltd.—08/Cal/92 & 12/Cal/92.

Banerjee, S. (Mr).—10/Cal/92.

#### —C—

Chakravarty, A. (Dr).—38/Cal/92.

Chang, C.S.—68/Cal/92.

#### —D—

Deawoo Electronics Co. Ltd.—19/Cal/92.

Degussa Ag.—43/Cal/92, 56/Cal/92 & 70/Cal/92.

Deutsche Thomson-Brandt GmbH.—36/Cal/92 & 53/Cal/92.

Dolai, H.—51/Cal/92.

#### —E—

E.I. Du Pont De Nemours and Co.—40/Cal/92.

Ethicon, Inc.—02/Cal/92.

#### —F—

Franz Plasser Bahnbaumaschinen Industrie Gesellschaft m.b.H.—54/Cal/92.

## —G—

Golovnoe Spetsializirovannoe Konstruktorakoe Bjuro Po Mashinam Dlya Khlopkovodstva.—30/Cal/92, 31/Cal/92, 32/Cal/92 & 39/Cal/92.

## —H—

Henkel KGAA.—56/Cal/92.

Hitachi Cable, Ltd.—57/Cal/92.

Hitachi Ltd.—52/Cal/92.

Hoechst Aktiengesellschaft.—20/Cal/92, 25/Cal/92 & 45/Cal/92.

Hoechst Celanese Corporation.—34/Cal/92.

## —I—

Interactive Systems, Inc.—59/Cal/92, 60/Cal/92, 61/Cal/92, 62/Cal/92, 63/Cal/92, 64/Cal/92, 65/Cal/92 & 66/Cal/92.

Interactive Systems, Incorporated.—58/Cal/92.

## —J—

John Lysaght (Australia) Ltd.—15/Cal/92.

## —K—

Khaitan (India) Ltd.—06/Cal/92.

## —L—

Lausttzer Braunkohle Aktiengesellschaft.—24/Cal/92.

Lin, C.C.—67/Cal/92.

Lunar Corporation.—27/Cal/92.

## —M—

Metallgesellschaft Aktiengesellschaft.—35/Cal/92.

Minato Co. Ltd.—16/Cal/92.

Mitsui Toatsu Chemicals Incorporated.—03/Cal/92.

Mitutoyo Corporation.—48/Cal/92 & 49/Cal/92.

Mukherjee, C. (Dr.).—55/Cal/92.

Mukherjee, C.R.—50/Cal/92.

## —N—

N.V. Philips Gloeilampenfabrieken.—33/Cal/92.

Neste Oy Chemicals.—57/Cal/92.

Norton Co.—07/Cal/92.

## —P—

Pechiney Electrometallurgie.—01/Cal/92.

Podder, B.C. (Dr.).—09/Cal/92.

## —R—

RXS Schrumpftechnik.—Garnituren GmbH.—69/Cal/92.

Roy, S.—29/Cal/92.

Ruttl S.R.L.—41/Cal/92.

## —S—

Somar Corporation.—42/Cal/92.

## —T—

Talukdar, A.—38/Cal/92.

Talukdar, A.—38/Cal/92.

Tega India Ltd. M/S.—44/Cal/92.

Trico-Folberth Ltd.—17/Cal/92.

## —U—

UTDC Inc.—28/Cal/92.

United Catalysts Inc.—13/Cal/92 & 14/Cal/92.

## —W—

Winamac Spring Co. Inc.—26/Cal/92.

## BOMBAY

(01/Bom/92 to 36/Bom/92).

## —B—

Bahadur, V.—33/Bom/92.

Bajaj Auto Ltd.—22/Bom/92.

Bhabha Automatic Research Centre.—9/Bom/92.

Bhatia, K.B.—23/Bom/92.

Bombay Textile Research Association, The.—21/Bom/92.

## —C—

Crompton Greaves Ltd.—10/Bom/92.

## —D—

Dhonde, T.K.—2/Bom/92.

## —E—

Elder Pharmaceuticals Ltd.—8/Bom/92.

## —G—

Gokhale, K.G.—15/Bom/92.

## —H—

Hada, H.—7/Bom/92.

Hindustan Lever Ltd.—16/Bom/92, 24/Bom/92 & 27/Bom/92.

Hiran, P.P.—25/Bom/92.

## —I—

Indian Oil Corporation Ltd.—4/Bom/92, 5/Bom/92 & 26/Bom/92.

## —J—

Joseph, N.C.—20/Bom/92.

## —K—

Kinetic Engineering Ltd.—17/Bom/92.

Kirloskar Pneumatic Co. Ltd.—13/Bom/92 & 14/Bom/92.

## —M—

Mardhekar, D.V.—15/Bom/92.

Mehta, S.—1/Bom/92.

Meter, S.I.—29/Bom/92.

Mintage Consultants Pvt. Ltd.—31/Bom/92.

## —P—

Palsaniya, A.Y.—28/Bom/92.

## —R—

Rajendran, S.—18/Bom/92.

Rao, P.M.—30/Bom/92.

## —S—

Sandhu, S.J.S.—6/Bom/92.

Seth, R. (Shri).—34/Bom/92, 35/Bom/92 & 36/Bom/92.

Shah, C.S.—11/Bom/92 & 12/Bom/92.

Solanki, A.—19/Bom/92.

## —V—

Valadares, J.A.—03/Bom/92.

Varghese, N.K.—32/Bom/92.

## MADRAS

(10/Mas/92 to 7/Mas/92).

## —A—

American Telephone & Telegraph Co.—33/Mas/92.

Asea Brown Boveri Ltd.—21/Mas/92 & 48/Mas/92.

## —B—

BASF AG.—34/Mas/92.  
 Becoat, B.I.—47/Mas/92.  
 Best & Crompton Engineering Ltd.—54/Mas/92.  
 Bharat Dynamics Ltd. M/S.—32/Mas/92.  
 Bifora Watch Co. Ltd.—58/Mas/92.  
 Borden (UK) Ltd.—31/Mas/92.

## —C—

Caterpillar Inc.—23/Mas/92.  
 Chang, D.—19/Mas/92.  
 Chemfob Alkalies Ltd.—13/Mas/92.  
 Comaleo Aluminium Ltd.—17/Mas/92.  
 Compagnie Generale Des Etablissements Michelin-Michelin & CIE.—53/Mas/92.

## —D—

Dana Corporation.—15/Mas/92.  
 Devasia, M.J.—9/Mas/92.  
 Dow Chemical Co., The.—49/Mas/92.  
 Du Pont (UK) Ltd.—55/Mas/92.

## —E—

Energy Conversion Devices, Inc.—50/Mas/92.

## —F—

Foseco International Ltd.—11/Mas/92.

## —G—

GEC-Marconi Ltd.—18/Mas/92.

## —H—

Hoechst Aktiengesellschaft.—02/Mas/92 & 65/Mas/92.  
 Hoogovens Groep BV.—16/Mas/92.

## —I—

Igen Inc.—67/Mas/92.  
 Indian Institute of Technology.—01/Mas/92.  
 Institut Francais du Petrole.—03/Mas/92 & 60/Mas/92.

## —J—

Jacques Benzaria.—60/Mas/92.  
 Joseph, B.A.—62/Mas/92.

## —K—

Kirloskar Electric Co. Ltd.—57/Mas/92.

## —L—

Lan, S.S.—19/Mas/92.  
 Lal, J.—63/Mas/92.

## —M—

Mars Incorporated.—64/Mas/92.  
 Maschinenfabrik Rieter Ag.—59/Mas/92.  
 Milimore Engineering Private Ltd.—61/Mas/92.  
 Minnesota Mining and Manufacturing Co.—27/Mas/92 & 35/Mas/92.  
 Mondesh Ltd.—20/Mas/92.

## —N—

Nechushtan, G.—25/Mas/92.  
 Norton Co.—66/Mas/92.

## —P—

Palilex Project-Co. GmbH.—51/Mas/92.

## —R—

Rajaram, H.S.—41/Mas/92, 42/Mas/92, 43/Mas/92 & 44/Mas/92.

Raju, R.S.—36/Mas/92.

Rao, E.G.K.—30/Mas/92.

Rao, T.D.—46/Mas/92.

## —S—

S & S Power Switchgear Ltd.—29/Mas/92.  
 Shell internationale Research Maatschappij B.V.—12/Mas/92 & 22/Mas/92.  
 Shet, G.V.—40/Mas/92.  
 Signode Corporation.—8/Mas/92.  
 Snam Alloys Pvt. Ltd.—14/Mas/92.  
 Soundout (Pty) Ltd.—28/Mas/92.  
 Southern Life Place.—28/Mas/92.  
 Subashini, S. (Mrs.).—45/Mas/92.

## —T—

Tecumseh Products Co.—4/Mas/92, 5/Mas/92, 6/Mas/92, 7/Mas/92 & 37/Mas/92.  
 Textron Inc.—38/Mas/92.  
 Tshihara Sangyo Kaisha.—26/Mas/92.

## —U—

Union Carbide Chemicals & Plastics Technology Corporation.—56/Mas/92.  
 Urea Casale S.A.—24/Mas/92 & 52/Mas/92.

## —V—

Varughese, P.M.—10/Mas/92.  
 Venkataramanan, N.—39/Mas/92.

## DELHI

(01/Del/92 to 73/Del/92).

## —A—

Aktiebolaget Astra.—8/Del/92 & 9/Del/92.  
 Allied-Signal Inc.—68/Del/92.

## —B—

Bharat Heavy Electricals Ltd.—53/Del/92.  
 Bhatt, K.—12/Del/92.

## —C—

Centre Stephanois De Recherches Mecaniques Hydro-mecanique Et Frottement.—55/Del/92.  
 Conceptair Anstalt.—58/Del/92.  
 Council of Scientific & Industrial Research.—20/Del/92, 21/Del/92, 22/Del/92, 23/Del/92, 24/Del/92, 25/Del/92, 26/Del/92, 31/Del/92, 42/Del/92, 43/Del/92, 44/Del/92, 64/Del/92, 65/Del/92 & 66/Del/92.

## —D—

Datta, D.—16/Del/92.  
 Denehurst Ltd.—67/Del/92.

## —E—

ESCO Corporation.—46/Del/92.  
 Eastman Kodak Co.—59/Del/92.  
 Exxon Chemical Patents, Inc.—49/Del/92.

## —F—

FMC Corporation.—52/Del/92.

## —G—

Gillette Co., The.—36/Del/92.  
 Goel, V.K.—62/Del/92.  
 Goodyear Tire & Rubber Co., The.—48/Del/92.

## —H—

Hall, F.M.—35/Del/92.  
Hindalco Industries Ltd.—38/Del/92.  
Holzer, W.—18/Del/92.  
Hughes Aircraft Co.—32/Del/92.

## —I—

Imperial Chemical Industries PLC.—2/Del/92, 3/Del/92 & 47/Del/92.

## —J—

Jain, S.S.—6/Del/92 & 7/Del/92.  
John Crane UK Ltd.—70/Del/92.

## —K—

Kalina, A.I.—63/Del/92.  
Kaushika, N.D. (Dr.)—5/Del/92.

## —L—

Lubrizol Corporation, The.—39/Del/92, 40/Del/92, 41/Del/92, 61/Del/92 & 72/Del/92.

## —M—

Mal, S.—27/Del/92.  
Mangla, J.C.—11/Del/92.  
Mcconway & Torley Corporation.—17/Del/92.  
Megapulse Incorporated.—37/Del/92.  
Motorola Inc.—4/Del/92, 13/Del/92, 29/Del/92 & 60/Del/92.

## —N—

Norsk Hydro A.S.—50/Del/92.

## —O—

Otis Elevator Co.—56/Del/92.

## —P—

Paschal-Werk G. Maier GmbH.—57/Del/92.  
Pfizer Inc.—19/Del/92.  
Procter & Gamble Co., The.—33/Del/92, 34/Del/92 & 54/Del/92.

## —R—

Randolph-Rand Corporation.—14/Del/92.  
Rohm & Haas Co., 71/Del/92.  
Rollatainers Ltd.—45/Del/92.

## —S—

Scientific Generics Ltd.—15/Del/92.  
Sekhōn, K.S.—1/Del/92.

Shell Internationale Research Maatschappij B.V.—28/Del/92.

Singh, V.—30/Del/92.

Stein, A.—51/Del/92.

## —U—

UQP.—10/Del/92 & 73/Del/92.  
Uson Traders.—69/Del/92.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 164322. Motherson Pudenz Fuses Pvt. Ltd., B-300, New Friends Colony, New Delhi-110065. India. "Fuse". May 4, 1992.

Class 3. No. 163724. Hi-Tech Plast Containers India Ltd., Indian Company of 3-A, Barodawala Mansion, 81, Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. "Container". October 31, 1991.

Class 3. No. 163930. Poly Zip Pvt. Ltd., Indian Company of 32, Ezra Street, 1st floor, Calcutta-700001, W.B., India. "Zip Fastener". December 20, 1991.

Class 3. No. 164037. Larsen & Toubro Ltd. of L & T House Ballard Estate, Bombay-400048, Maharashtra, India, Indian Company. "Programmable logic controller". January 24, 1992.

Class 3. No. 164169. Venus Enterprises, Indian Firm of 63, S.V. Road, Bombay-400009, Maharashtra, India: "Case". March 20, 1992.

Class 4. No. 163844. Mrs. Ruhsana Gulam Amin of 5, Jer Mansion, Off. Turner Road, Bandra (West), Bombay-400050, Maharashtra, India, Indian. "Lamp shed". November 26, 1991.

Copyright extended for the 2nd period of five years.

Nos. 151890, 157706 to 157710—Class 3.

R. A. ACHARYA

Controller General of Patents, Designs  
and Trade Marks

प्रबन्धक, भारत सरकार मन्त्रालय, फरीदाबाद द्वारा मद्रित  
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1992

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD,  
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1992